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23373 SUGHRUE M	7590 08/21/2007 ION. PLLC		EXAMINER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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		Application No.	Applicant(s)			
Office Action Summary		10/612,089	OOGHE ET AL.			
		Examiner	Art Unit			
		Mon Cheri S. Davenport	2616			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence ad	idress		
WHIC - Exter after - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DOTS IN THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from , cause the application to become AB ANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).	, ,		
Status						
2a)⊠	Responsive to communication(s) filed on This action is FINAL. 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		e merits is		
Dispositi	on of Claims					
5) □ 6) ⊠ 7) □ 8) □ Applicati	Claim(s) 1-10 is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-10 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examine The drawing(s) filed on 29 May 2007 is/are: a)	wn from consideration. r election requirement.	by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
•	ınder 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notice 3) Information	et(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) or No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate			

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Claim Rejections - 35 USC § 102

1. Claims 1-10 rejected under 35 U.S.C. 102(b) as being anticipated by Ma et al. (US Patent Number 5,953,338).

Regarding Claim 1 Ma et al. discloses a method to deliver across an access network a data stream requiring a bandwidth and a with a quality of service, said access network, said method comprising

provisioning a plurality of virtual connections capable of meeting bandwidth and quality of service requirements between a plurality of users coupled to said access network, and an access server of said access network coupled to a content provider operable to deliver said data stream(see col. 3, line 30-56, the control module dynamically controls the assigned parameters of the virtual channels, quality of service is included); and,

requesting, by a user out of said plurality of users, said data stream from said content provider (see col. 4, lines 1-8, the control module (which is the content provider, checks to make sure the parameter are available after a request is made).

wherein after a user has requested said data stream from said content provider, and if the user lacks support for negotiating or acknowledging the bandwidth through said access network with said quality of service, said method further comprises (see col. 4, lines 1-12):

identifying a virtual connection out of said plurality of virtual connections capable of guaranteeing said quality of service between said user and said access server (see col. 4, lines 10-12, the virtual connection is set up)

checking whether said virtual connection can convey said bandwidth (see col. 4, line 7-8, checks for available capacity); and

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according to the outcome of said checking whether said virtual connection can convey said bandwidth, allowing or disallowing said data stream to be delivered over said virtual connection to said user(see col. 4, lines 7-12, if not in an overload connection is established).

2 Regarding Claim 2 Ma et al. discloses everything as applied above (see *claim 1*). In addition, the method includes:

comprising:

if said virtual connection cannot convey said bandwidth, checking additionally whether said access network can accommodate said bandwidth between said user and said access server along said virtual connection, and(see figure 8, BW available on VP? (If NO), Overload?),

according to the outcome of said additional checking:

adapting the capacity of said virtual connection for it to convey said bandwidth and allowing said data stream to be delivered to said user(see figure 8, approve request, deduct from available bandwidth, setup connection),

or disallowing said data stream to be delivered to said user (see figure 8, reject bandwidth request, return with overload condition).

Regarding Claim 3 Ma et al. discloses everything as applied above (see *claim 1*). In addition, the method includes:

further comprising:

provisioning a virtual path across said access network, the bandwidth of which being determined from a traffic load expected from said plurality of users(see column 7, lines 21-26, centralized call admission/ usage monitor module determines what virtual path is needed based on existing or expected traffic load and utilization);

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aggregating said plurality of virtual connections over said virtual path(see column 7, lines 27-30, centralized call admission control monitor module, instructs bandwidth manager module to dynamically adjust the size of each virtual path, virtual channel, and virtual path group);

disabling any connection admission control means in said access network that may prevent the aggregating said plurality of virtual connections over said virtual path(see column 7, lines 33-34, adjust, alters, creates or destroys the actual size of the virtual path).

if said virtual connection can convey said bandwidth, checking additionally whether said virtual path can convey said bandwidth(see figure 8, deduct from the available bandwidth for VPN client), and

according to the outcome of said additional checking step, allowing or disallowing said data stream to be delivered over said virtual connection to said user(see figure 8, setup connection).

Regarding Claim 4 Ma et al. discloses everything as applied above (see *claim 1*). In addition, the method includes:

further comprising:

provisioning a virtual path across said access network, the bandwidth of which being determined from a traffic load expected from said plurality of users(see column 7, lines 21-26, centralized call admission/ usage monitor module determines what virtual path is needed based on existing or expected traffic load and utilization):

if said virtual connection can convey said bandwidth, checking additionally whether said virtual path can convey said bandwidth (see figure 8, deduct from the available bandwidth for VPN client), : and

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according to the outcome of said additional checking(see figure 8, setup connection):

connecting said virtual connection to said virtual path and allowing said data stream to be delivered to said user(see figure 8, setup connection),

or disallowing said data stream to be delivered to said user (see figure 8, reject bandwidth request, return with the overload condition).

Regarding Claim 5 Ma et al. discloses everything as applied above (see *claim 3*). In addition, the method includes:

wherein the bandwidth of said virtual path is determined according to a statistical traffic law, given a number of virtual connections multiplexed over said virtual path, a traffic load per user and a service deny probability(see column 7, lines 21-26, centralized call admission/usage monitor module determines what virtual path is needed based on existing or expected traffic load and utilization).

Regarding Claim 6 Ma et al. discloses everything as applied above (see *claim 3*). In addition, the method includes:

wherein the number of virtual connections multiplexed over said virtual path is determined according to a statistical traffic law, given a bandwidth of said virtual path, a traffic load per user and a service deny probability(see column 7, lines 21-26, centralized call admission/ usage monitor module determines what virtual channels is needed based on existing or expected traffic load and utilization).

Regarding Claim 7 Ma et al. discloses an access network operable to convey a data stream requiring a bandwidth and a quality of service, said access network comprising;

an access server coupled to a content provider operable to deliver said data stream (see figure 1a, section 180, virtual private network and see figure 1a, section 130G-K, ATM edge switch);

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administration means adapted to provision a plurality of virtual connections capable of meeting bandwidth and quality of service requirements between a plurality of users coupled to said access network, and the access server(see figure 1A, section 145, Centralized call admission control / usage monitor); and,

access resource control means adapted to, after a user out of said plurality of users has requested said data stream from said content provider, and if said user lacks support for negotiating or acknowledging through said access network said bandwidth with said quality of service(see figure 8, BW available on VP? (If NO), Overload?),

identify a virtual connection out of said plurality of virtual connections capable of guaranteeing said quality of service between said user and said access serve(see col. 4, lines 10-12, the virtual connection is set up)

check whether said virtual connection can convey said bandwidth(see figure 8, BW available on VP?),

according to the outcome of said check, allow or disallow said data stream to be delivered over said virtual connection to said user(see figure 8, approve request, reject bandwidth request).

Regarding Claim 8 Ma et al. discloses everything as applied above (see *claim 7*). In addition, the access network includes:

wherein said access resource control means are coupled to said administration means(see figure 1a, section 150, Bandwidth manager, section 140, call control), said administration means(see figure 1a, section 145, centralized call admission control/ usage monitor), are further adapted to adapt the capacity of said virtual connection, and in that said access resource control means are further adapted to (see column 7, lines 21-26, centralized call admission/ usage

monitor module determines what virtual channels is needed based on existing or expected traffic load and utilization):

if said virtual connection cannot convey said bandwidth, check additionally whether said access network can accommodate said bandwidth between said user and said, access server (see figure 8, BW available on VP(if NO), Overload?); and

according to the outcome of said additional checking step check:

trigger said administration means to adapt the capacity of said virtual connection for it to convey said bandwidth and allow said data stream to be delivered over said virtual connection to said bandwidth (see figure 8, Overload ?(is NO), approve request, deduct from available bandwidth for vpn client) and grant said bandwidth to said service (see figure 8, setup connection), or

disallow said data stream to be delivered to said user(see figure 8, Overload?(if yes), reject bandwidth request, return with overload condition)

Regarding Claim 9 Ma et al. discloses everything as applied above (see *claim 7*). In addition, the access network includes:

wherein said administration means are further adapted to-

provision a virtual path across said access network(see figure 8, deduct from available bandwidth for vpn client), the bandwidth of which being determined from a traffic load expected from said plurality of users(see column 7, lines 21-26, centralized call admission/ usage monitor module determines what virtual channels is needed based on existing or expected traffic load and utilization),;

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aggregate said plurality of virtual connections over said virtual path (see column 7, lines 27-30, centralized call admission control monitor module, instructs bandwidth manager module to dynamically adjust the size of each virtual path, virtual channel, and virtual path group), and

disable any connection admission control means in said access network that may prevent from aggregating said plurality of virtual connections over said virtual path(see column 7, lines 33-34, adjust, alters, creates or destroys the actual size of the virtual path), and wherein said access resource control means are further adapted to:

if said virtual connection can convey said bandwidth, check additionally whether said virtual path can convey said bandwidth (see figure 8, deduct from the available bandwidth for VPN client),

according to the outcome of said additional check, allow or disallow said data stream to be delivered to said user(see figure 8, setup connection).

Regarding Claim 10 Ma et al. discloses everything as applied above (see *claim 7*). In addition, the access network includes:

wherein said access resource control means are coupled to said administration means, said administration means (see figure 1a, section 160, centralized control module) are further adapted to:

provision a virtual path across said access network (see figure 8, deduct from available bandwidth for vpn client), the bandwidth of which being determined from a traffic load expected from said plurality of users (see column 7, lines 21-26, centralized call admission/usage monitor

module determines what virtual channels is needed based on existing or expected traffic load and utilization); and

connect said virtual connections to said virtual path, and wherein said access resource control means are further adapted to (see figure 8, setup connection):

if said virtual connection can convey said bandwidth, checking additionally whether said virtual path can convey said bandwidth (see figure 8, deduct from the available bandwidth for VPN client); and

according to the outcome of said additional checking step

trigger said administration means for it to connect said virtual connection to said virtual path and allow said data stream to be delivered to said user(see figure 8, setup connection), or

disallow said data stream to be delivered to said user(see figure 8, reject bandwidth request).

Response to Arguments

Drawings

Previous objections are withdrawn in view of Applicant's amendment file May 29, 2007. Specification

Previous objections are withdrawn in view of Applicant's amendment file May 29, 2007. Claim Rejections - 35 USC § 112

Previous rejections are withdrawn in view of Applicant's amendment file May 29, 2007.

Applicant's arguments filed May 29, 2007 have been fully considered but they are not 2. persuasive. New grounds necessitated by amendment.

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In the remarks on pgs. 13 of the amendment, the applicant contends that Ma et al. does not teach or suggest a content provider, which is operable to deliver the alleged data stream and is connected to an access server of the alleged access network. Examiner respectfully disagrees. Ma et al. teaches the control module which is the content provider is connected to a ATM edge switch(s) that deliver the data stream to the network, see figure 1B.

Applicant also contends that Ma et al. does not teach or suggest identifying a virtual connection out of a plurality of provisioned virtual connections after a user has requested a data stream from a content provider and if the user lacks support for negotiating the bandwidth through the network. Examiner respectfully disagrees. Ma et al. teaches the control module determines whether the virtual connection has available capacity (quality of service), then dynamically and continuously allows for greater use of the available capacity of the networks (see Ma et al., col. 4, lines 7-17).

Conclusion

3. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Mon Cheri S. Davenport whose telephone number is 571-270-

1803. The examiner can normally be reached on Monday - Friday 8:00 a.m. - 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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MD/md

August 13, 2007

Seema S. RAO 8120107

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